

Multiple readout of long-lived photon echo signals and nuclear relaxation

Zuikov V., Kalachev A., Nefed'ev L., Samartsev V.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The relaxation decay of long-lived stimulated photon echo signals in a $\text{Pr}^{3+} : \text{LaF}_3$ crystal was found to be independent of the number of readout pulses when the area under these pulses was small. A theoretical description of this effect is provided and a good agreement between the theory and experiment is reported.

<http://dx.doi.org/10.1070/QE1996v026n03ABEH000644>
